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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,256	12/16/2004	Willem Lubertus Ijzerman	NL 020556	6689

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS
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EXAMINER

SHAPIRO, LEONID

ART UNIT	PAPER NUMBER
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2629

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/518,256	Applicant(s) IJZERMAN ET AL.	
	Examiner Leonid Shapiro	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10, 12 and 15 is/are rejected.
- 7) ☒ Claim(s) 11, 13 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>11-9-05</u> | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-10,12,15 rejected under 35 U.S.C. 102(b) as being anticipated by Gange (US Patent No. 4,181,871).

As to claims 1, Gange teaches a display device (See Col. 1, Lines 8-11), comprising:

an electron source for generating an electron beam (See Fig. 1, item 16, Col. 2, Lines 10-23);

a luminescent display screen for receiving the electron beam and displaying image information (See Fig. 1, item 28, Col. 2, Lines 10-23);

electron beam guiding means for guiding said electron beam to said display screen, said electron beam guiding means comprising a beam guiding channel extending essentially in a guidance direction parallel to the display screen and being provided with electrode means defining, in operation, a beam guiding electric potential in the beam guiding channel (See Figs. 1-2, items 26,32,42,44,46, Col. 2, Lines 40-67)

characterized in that the electrode means are arranged to focus the electron beam in a transverse direction that is substantially orthogonal to the guidance direction, and parallel to the display screen (See Fig. 2, items 34,44, Col. 2, Lines 40-58).

As to claim 2, Gange teaches a first electrode having a base portion parallel to the display screen (See Fig. 3, item 34), and side portions extending from said base portion in a direction perpendicular to the display screen (See Fig. 3, item 35, Col. 3, Lines 32-47).

As to claim 3, Gange teaches the side portions are positioned at both edges of the base portion as seen in the transverse direction, the side portions extending towards the display screen (See Fig. 3, item 35, Col. 3, Lines 32-47).

As to claim 4, Gange teaches a first insulating plate having barrier ribs and being provided with a conducting traces being part of the electrode means, the channel being defined between adjacent barrier ribs of the first insulating plate (See Fig. 3, item 20,34-35, Col. 3, Lines 32-47).

As to claim 5, Gange teaches a second insulating plate between the first insulating plate and the display screen, said second insulating plate being provided with beam extraction apertures for extracting the electron beam from the channel, and having conducting traces being part of the electrode means (See Figs. 2-3, items 42,44,46, from Col. 2, Line 59 to Col. 3, Line 31).

As to claim 6, Gange teaches conductive traces extend substantially perpendicular to the channel (See Fig. 3, item 35).

As to claim 7, Gange teaches the channel comprises a plurality of subsequent cells, and the electrode means comprise a second electrode between one of the cells and an adjacent one of the cells, said second electrode being provided with electron beam passing apertures (See Figs. 2-3, items 42,44,46, Col. 3, Lines 47-67).

As to claims 8-10, Gange teaches the second electrode cooperates with the first electrode for modifying the electric potential in a selected cell of the channel, so as to extract the electron beam from said selected cell towards the display screen (See Figs. 2-3, items 38, 42, Col. 3, Lines 36-61).

As to claim 12, Gange teaches the display screen comprises a plurality of picture elements, and the electron beam guiding means comprise positioning means for positioning the electron beam extracted from the selected cell onto an associated picture element (See Figs. 2-3, items 38, 42, Col. 3, Lines 36-61).

As to claim 15, Gange teaches one of the subsequent cells is associated with a plurality of picture elements, the positioning means comprising selection means for positioning the electron beam onto a preselected one of said plurality of picture elements. (See Figs. 2-3, items 38, 42, Col. 3, Lines 36-61).

Allowable Subject Matter

3. Claims 11,13-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Relative to claim 11 the major difference between the teaching of the prior art of record (Gange) and the instant invention is that the display device is provided with two electron sources located at opposing ends of the channel.

Relative to claim 13 the major difference between the teaching of the prior art of

record (Gange) and the instant invention is that one of the subsequent cells is associated with a picture element of the display screen, and the positioning means comprise a plurality of conducting plates being provided with apertures for passing the electron beam from said one of the subsequent cells to the associated picture element.

Claim 14 depends on claim 13.

Telephone Inquire

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/518,256
Art Unit: 2629

Page 6

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A handwritten signature in black ink, appearing to read 'R. Hjerpe', with a stylized, cursive script.

RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600